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GODOX V850II

Godox V850II Camera Flash Speedlite Instruction Manual

Model: V850II

1. Introduction

This manual provides detailed instructions for the safe and effective use of your Godox V850II Camera Flash Speedlite. Please read this manual thoroughly before use to ensure optimal performance and to prevent damage to the product or injury to yourself.



Image 1.1: The Godox V850II Camera Flash Speedlite.

2. Key Features

- **Integrated Godox 2.4G Wireless X System:** Offers enhanced shooting capabilities with master and slave flash functions, compatible with various DSLR cameras including Canon, Nikon, Pentax, Fuji, and Olympus.
- **Powerful Output:** Guide Number (GN) of 60, with 22 power levels (1/1 to 1/128).
- **Versatile Modes:** Supports M (Manual), Multi (Stroboscopic), S1, and S2 modes.
- **Flexible Zoom Range:** Automatic or manual zoom from 20-200mm.
- **High-Performance Lithium Battery:** Features an 11.1V/2000mAh Li-ion battery, providing a maximum 1.5s recycle time and approximately 650 full power flashes.
- **High-Speed Sync (HSS) Capability:** Achieves shutter speeds up to 1/8000s when used with compatible high-speed trigger units (e.g., Godox Cells II, X1 TTL wireless flash trigger). Note: HSS is not available when the V850II

is mounted directly on the camera.

- **User-Friendly LCD Display:** High-resolution screen for clear and intuitive operation.
- **Additional Functions:** Includes C.Fn custom function settings, focus assist lamp, buzz function, and overheat protection.
- **Multiple Trigger Methods:** Equipped with a wireless control port and a 3.5mm cable sync jack.



Image 2.1: Overview of the Godox V850II's primary features.

3. What's in the Box

The standard package for the Godox V850II Speedlite includes the following items:

- 1x V850II Speedlite Unit
- 1x VB18 Lithium Battery
- 1x Battery Charger
- 1x Charger Cable
- 1x Protection Bag
- 1x H-type Mini Stand
- 1x Color Filter Set
- 1x White Diffuser
- 1x Cleaning Cloth



Image 3.1: Visual representation of the items included in the product package.

4. Setup

4.1 Battery Installation and Charging

1. Ensure the flash unit is powered off.
2. Open the battery compartment cover on the side of the flash unit.
3. Insert the VB18 Lithium Battery, ensuring correct polarity as indicated inside the compartment.
4. Close the battery compartment cover securely.
5. To charge the battery, remove it from the flash unit and place it into the provided battery charger. Connect the charger to a power source using the charger cable. The indicator lights on the charger will show the charging status.



Image 4.1: The Godox V850II flash unit with its lithium-ion battery.

4.2 Mounting the Flash Unit

1. Slide the flash unit's hot shoe onto your camera's hot shoe mount.
2. Tighten the locking ring or lever on the flash unit to secure it firmly to the camera.
3. Alternatively, the flash can be mounted on the included mini stand for off-camera use.



Image 4.2: The hot shoe mount of the Godox V850II, compatible with various DSLR cameras.

5. Operating Instructions

5.1 Power On/Off and Basic Controls

To power on the flash, slide the ON/OFF switch. The LCD display will illuminate, showing current settings. Use the control panel buttons and dial to navigate menus and adjust parameters.

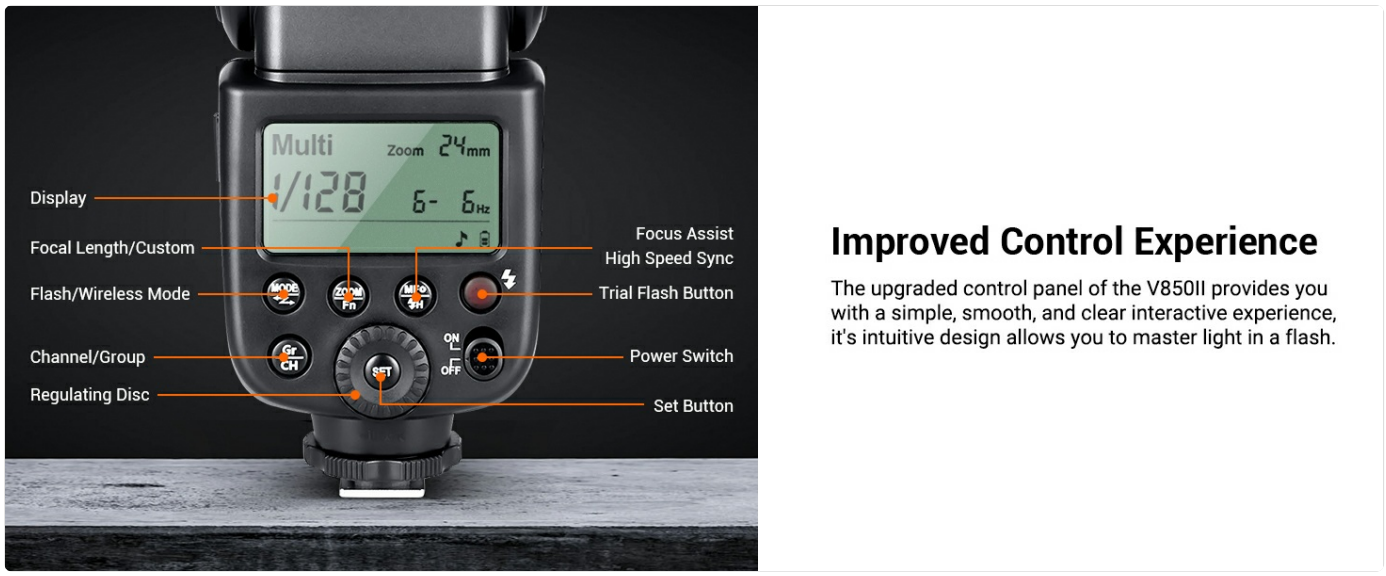


Image 5.1: The intuitive control panel of the Godox V850II for adjusting settings.

5.2 Flash Modes (M/Multi/S1/S2)

- **M (Manual) Mode:** Allows manual adjustment of flash output from 1/1 (full power) to 1/128.
- **Multi (Stroboscopic) Mode:** Fires a series of rapid flashes within a single exposure, useful for capturing multiple movements of a subject.
- **S1/S2 (Optical Slave) Modes:** The flash can be triggered by another flash unit. S1 mode triggers on the first flash, while S2 mode ignores the pre-flash of a TTL system and triggers on the main flash.

5.3 Zoom Adjustment

The flash head's zoom can be adjusted automatically or manually to match the lens focal length, optimizing light coverage. Use the ZOOM button to cycle through settings.

5.4 Godox 2.4G Wireless X System

The V850II features a built-in 2.4G wireless X system, enabling it to function as both a master and slave unit. This allows for seamless integration with other Godox X system flashes and triggers (e.g., X1, X2, XPro series).

- **Master Unit:** The V850II can control other compatible Godox slave units, assigning them to groups (M/A/B/C/D/E) and channels (1-32).
- **Slave Unit:** When set as a slave, the V850II can be controlled by a master unit, responding to its assigned group and channel.



Image 5.2: The Godox V850II operating as part of the 2.4G Wireless X System.

5.5 High-Speed Sync (HSS)

To utilize High-Speed Sync (HSS) up to 1/8000s, the V850II must be triggered by a compatible Godox high-speed trigger (e.g., X1T, X2T, XPro). HSS allows you to use wider apertures in bright conditions or freeze fast motion with flash. Please note that HSS is not available when the V850II is mounted directly on the camera's hot shoe.

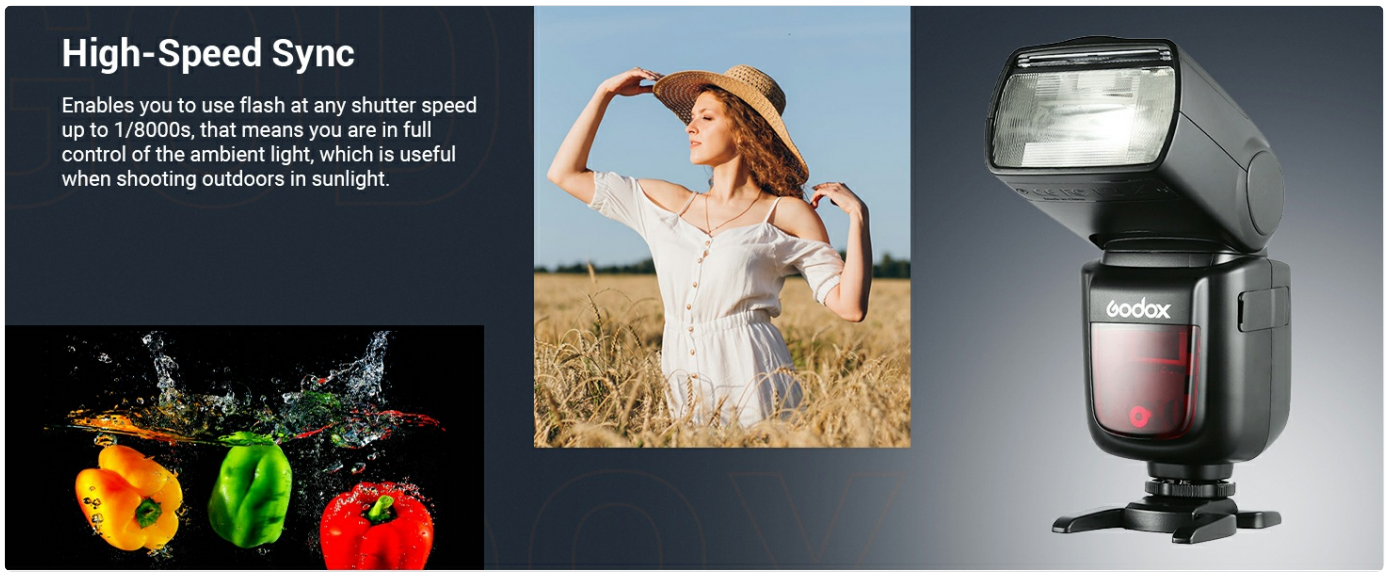


Image 5.3: Demonstrating the effect of High-Speed Sync with the Godox V850II.

5.6 Bounce and Rotation

The flash head can be rotated horizontally from 0° to 360° and tilted vertically from -7° to 90°. This flexibility allows for bouncing the flash off ceilings or walls to create softer, more natural lighting.



Image 5.4: Illustrating the vertical and horizontal rotation capabilities of the flash head.

5.7 Wide-Angle Diffuser

Pull out the built-in wide-angle diffuser panel from the flash head to soften the light and provide wider coverage, especially useful for wide-angle lenses.

6. Maintenance

- Keep the device dry. Do not handle with wet hands or immerse in water.
- Use only the specified battery and charger.
- Avoid sudden impacts. The device may malfunction if subjected to strong shocks, vibrations, or drops.
- Keep the flash tube clean. Dust or dirt on the flash tube can affect light output and color temperature.
- Do not attempt to disassemble or repair the unit yourself. Repairs should only be performed by authorized service personnel.
- Store the unit in a cool, dry place when not in use. Remove the battery if storing for extended periods.

7. Troubleshooting

Problem	Possible Cause	Solution
Flash does not fire.	Battery is low or depleted. Unit is not powered on. Incorrect mode selected. Trigger not functioning.	Charge or replace the battery. Ensure the unit is powered on. Select the appropriate flash mode (M, Multi, S1/S2). Check connection to camera or wireless trigger.
Flash output is inconsistent.	Battery power fluctuations. Overheat protection activated.	Ensure battery is fully charged. Allow the unit to cool down if overheat protection is active.

Problem	Possible Cause	Solution
"E3" error displayed.	Internal malfunction or communication error.	Power off the unit, remove and reinsert the battery, then power on again. If the error persists, contact customer support.
High-Speed Sync (HSS) not working.	Flash is mounted directly on camera. Incompatible trigger.	HSS requires an external Godox X system trigger. Ensure you are using a compatible trigger and the flash is set to the correct wireless mode.

8. Specifications

Feature	Detail
Model	V850II
Guide Number (GN)	60 (m ISO 100, @200mm)
Flash Coverage	20 to 200mm (Auto/Manual Zoom)
Flash Modes	M, Multi, S1, S2
Power Output	22 steps (1/1 to 1/128)
High-Speed Sync (HSS)	Up to 1/8000s (with compatible trigger)
Wireless Flash Function	Master, Slave, Off
Wireless Groups	5 (A, B, C, D, E)
Wireless Channels	32 (1-32)
Power Source	11.1V/2000mAh Li-ion Battery (VB18)
Recycle Time	Approx. 1.5s (at full power)
Full Power Flashes	Approx. 650
Color Temperature	5600K ± 200K
Dimensions (W x H x D)	9 x 8.1 x 3.1 inches (approximate)
Weight (without battery)	2.11 ounces (approximate)
Date First Available	June 27, 2016
Manufacturer	Godox

9. Warranty and Support

For warranty information and technical support, please refer to the documentation provided with your purchase or visit the official Godox website. Keep your proof of purchase for warranty claims.
If you encounter issues not covered in the troubleshooting section, please contact Godox customer service or your authorized dealer for assistance.

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